

## WHAT IS CLAIMED IS:

1. An image processing device comprising:  
an SIMD (Single Instruction stream Multiple Data stream)  
5 calculating means for performing operations, such as motion  
compensation, motion prediction, DCT (Discrete Cosine  
Transform) processing, IDCT (Inverse Discrete Cosine  
Transform) processing, quantization, and reverse quantization  
by means of a pipeline operation unit that can be program-  
10 controlled by an outside unit;  
a VLC (Variable Length Code) processing means for  
performing variable-length encoding processing and  
variable-length decoding processing according to a given  
encoding method;  
15 an external data interface means for performing a data  
transfer between the image processing device and an outside  
unit;  
an instruction memory for holding an instruction to be  
processed; and  
20 a processor means for decoding the instruction held by  
said instruction memory, and for performing a programmed  
control operation on said SIMD calculating means, said VLC  
processing means, and said external data interface means.
- 25 2.The image processing device according to Claim 1,  
wherein said instruction memory is a RAM (Random Access Memory).
- 3.The image processing device according to Claim 1,  
wherein said instruction memory is a ROM (Read Only Memory).